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## The Amplifier - v. 13, no. 2

Associated Students of the Montana College of Mineral Science and Technology

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# The AMPLIFIER

Montana College of Mineral Science and Technology

Vol. 13, No. 2

BUTTE, MONTANA

November 10, 1967

**BEAT  
CARROLL**

## What's Happening

by President Edwin G. Koch

Now that the fall term is well begun, and everyone is working very diligently to obtain the education he came here to get???, it is time to break the monotony and tell you what's been happening around here.

To begin, the administrative reorganization which we effected last spring as one part of our college development project is working out very smoothly. Each segment of the organization is beginning to know what it has to do and how it relates to the other parts.



Two notable achievements thus far have been the revision and improvement of all engineering curricula and the provision for additional meaningful sequences in the humanities and social science areas. Plans for the future further improvement of both the engineering and the arts and science divisions have been formulated. All departments have been solicited for project material to formulate a college proposal to the National Science Foundation in connection with the Instructional Scientific Equipment Program.

Work is progressing on the activation of our college Endowment and Research Foundation, and documents to effect this organization are in preparation. Also, we are searching for a public relations and college development man to be the executive director of this activity. We are moving ahead with our preparations for this activity as rapidly as possible.

1968 is the 75th (Diamond) anniversary of the establishment of the college by the third legislative assembly on February 17, 1893. This will provide an excellent opportunity for Montana Tech to formulate a program which will inform Montana people what the college, what it is doing for them, and where it hopes to go. Students here at the college can contribute a great deal to the development and success of this program.

Research activity continues to grow. It is interesting to note that in the immediate five year period following World War II, research supported by other than college funds amounted to only \$325. In the five year period including 1960-1964, the amount was approximately \$348,000, a growth of over 1,000 times. The amount for the last year alone was approximately \$138,000, which on a five year base at the same level would

represent almost \$700,000, a growth of more than 200% over the preceding period. Montana Bureau of Mines and Geology has expanded in research and public service to the people of Montana from \$114,000 in the post-war five year period to \$668,000 during the 1960-1964 period, a growth of over 600%. All of this means increased service to engineering science, and the people of the State. Research activity will continue to expand. However, undergraduate instruction is, and will remain, the principal activity and the over-riding responsibility of this college.

Your Student Executive Council, in conjunction with the college administration, is planning a series of open council meetings at which will be discussed administrative matters of concern to the students. The purpose of such meetings is to improve communications between students, faculty, and the administration.

You, as students, will benefit from Montana Tech's progress, and from time to time I will bring you up to date on "What's Happening."

E. G. Koch

## Enrollment down only 19 students

With an enrollment of 594, official registration closed Wednesday, November 1. This figure shows a decline of 19 compared to the enrollment a year ago.

A geographical breakdown of enrollment reveals that 90 per cent of the students are from Montana, with 496 of the 542 coming from Silver Bow County.

Thirty out-of-state students represent almost as many states. Foreign students hail from Canada, Chile, China, Egypt, India, Iran, Peru, and Saudi Arabia. These 25 foreign students make up 4 per cent of the student body.

Of the 594 students enrolled, 173 freshmen and 111 sophomores are general students. Engineering students number 49 freshmen, 93 sophomores, 64 juniors, 35 seniors, and 42 graduate students.

## Professor has articles, poems published

Robert T. Taylor, assistant professor in the Department of Humanities and Social Studies, has had two articles and three poems published in recent issues of *Montana Arts*.

"Contemporary Montana Fiction — A Challenge," an article on the problems of regional fiction in the 1960's, appeared in the summer issue. Also included were three poems, "Tracklessness," "Now in My Thirty-Eighth Year," and "Summer Elegy," part of a group of ten poems that were awarded first place last spring in the Mary Brennan Clapp Memorial Poetry Contest.

"On Form and Diction in Poetry" was printed in the autumn issue. It is a discussion of the nature of poetic diction and of form in relation to content and historical conventions.



Queen Rowena Dickenson is shown trying on her crown while princesses Nancy Payne, Kathy Koskimaki, Carolyn Pesanti, and Connie Boston watch.

## Coming Events

November 11  
Game-Football,  
Carroll ..... 1:30  
November 17-18  
Tournament at Miles City  
Junior College  
November 21-22  
Lewis and Clark College  
—Home  
November 21  
Thanksgiving Dance 10:00  
November 22  
Thanksgiving Vacation 5:00  
November 27  
Classes Resume 8:00 a.m.

## CITIZENS ORGANIZE TO BOAST TECH

by ERNEST BOND

Fifty-two Butte men and women who are interested in the future of Montana Tech met at an organizational luncheon in the Copper Bowl room of the Finlen Hotel on November 6. Robert Boulter, Manager of the Finlen Hotel, opened the meeting as temporary chairman. Later in the meeting, Boulter was elected chairman and Richard Rule, Chief Sampler for the Anaconda Company, was elected vice-chairman. Both are former Tech students. Mrs. Arlene Holland was elected secretary-treasurer. The Montana Tech Boosters Club is the official name of the organization. Membership in the club is not restricted. Anyone who is interested in the future of Montana Tech may join.

Representing Montana Tech at the luncheon were Professor Frank Kelly, Humanities; Professor William Van Matre, Mining; Professor Don McGlashan, Mineral Dressing; Professor Thomas Lester, Athletics; Mr. Victor Burt and Mr. John Dunstan, Business Office; Mrs. Louise Hungerford, President's Office; and Ernest Bond, Amplifier reporter.

Speakers at the meeting were Mr. Neal Lynch and Mr. James K. Archibald.

Mr. Lynch spoke of how an increased Tech enrollment would help the Butte business community and of how other Montana cities have been benefitted by increased enrollments. He said there is still a danger of bills being introduced into the legislature to move Montana Tech or to reduce its status as a college.

## Homecoming active weekend

Montana Techs' 1967 homecoming activities were kicked off on Friday night, October 20, with a bonfire and pep rally held on Leonard Field. Dick Rule and Coach Lester gave pep talks and M-Club President, John Cavanaugh, crowned Miss Homecoming Queen, Rowena Dickenson. Attending her were princesses

Nancy Payne, Connie Boston, Kathy Koskimaki, and Carolyn Pesanti.

Festivities resumed Saturday morning with the Homecoming parade followed by the judging of the floats in Alumni Stadium. Freshman Class won first prize of \$25 for the best float. John Stenson's car, George Pamen-ter's car, and the Circle K float won 2nd through 4th places respectively.

In the afternoon Tech hosted Northern in the homecoming grid contest. The Homecoming Queen and her princesses were introduced during halftime and presented with corsages.

The homecoming festivities were climaxed Saturday night with a dance held in the Copper Lounge with the musical stylings of Ed Bowman.

## Parents, faculty meet at coffee hour here

The Faculty Women's Club of Montana Tech sponsored a coffee hour Sunday, October 29, for parents of freshmen and faculty members.

Talks were given by Professor Donald McGlashan, director of research and development, Dean of Student Affairs Gustav Stolz, and Victor Burt.

The affair was well attended. Co-chairmen for the event were Mrs. George Hetherington, Jr., and Mrs. Vernon Griffiths.

## Girls invade A & M

For almost a century, Texas A&M at College Station, Texas, was all men—Texas men, that is.

Now, the women are moving in. Of the record 12,029 students enrolled, 700 are women. Last year the number of women was 578.

Unfortunately or maybe naturally, 484 of the 700 women are married, making dating still difficult or dangerous.



## Amplifier—Your Paper

"The Amplifier is my paper. It will carry only articles I assign, only opinions I endorse, and only editorials I write" — nonsuch editor.

Unfortunately last year some of the students of our college actually thought the Amplifier was being run by a dictator with the above philosophy. Nothing could be farther from the truth, but last year is past and a new year has started and with it a new editor and staff. We sincerely hope that we will not be thought of as being dictators and only trying to express our own selfish views and ideas.

We want the Amplifier to be an aid in establishing and maintaining an atmosphere of free and responsible discussion and of intellectual exploration on our campus, a means of bringing student concerns to the attention of the faculty and the institutional authorities, and of formulating of student opinion on various issues on the campus and in the world at large. Perhaps more importantly, we want the Amplifier to be interesting to you, that is, to have articles you will read, opinions on subjects that interest you, and your opinions.

The Amplifier is your paper, you pay for it. So read it, enjoy it, and make use of it even if it is only to paper your outhouse. Don't be afraid to occasionally write a letter to the editor. If you think the student council is goofed up, that athletics should be dropped, that the coeds should form a football team, or any other subject that bugs you; speak up. It's your privilege, make use of it. If you are literarily minded, you could go a step farther and write a column or perhaps a guest editorial. We appreciate your comments. They help us produce a better paper, a paper you can be proud of.

Pete Knudsen

## Student

### President

### Speaks

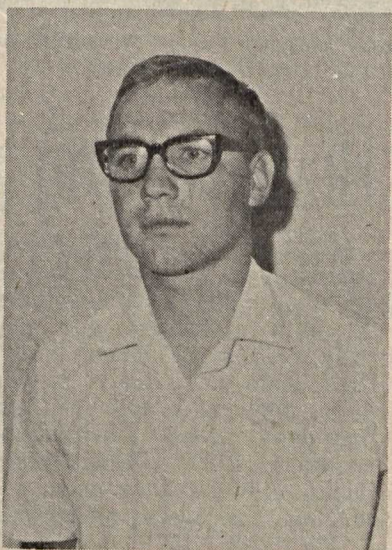
It was February, 1893 that the foundations of the school were laid down by the acts of the Third Legislative Assembly of Montana. In 1968 our school will be celebrating its 75th anniversary. These 75 years will be behind us, but where do we go from here?

Our school is today known throughout the world as one of foremost schools in the field of the mineral industries engineering. This image was developed by the many students who have graduated and then have gone on and proven themselves to be worthy engineers.

Is this enough though? Will our school be able to survive as a college placing only 30 to 40 people on the graduation list per year? No! We are a mineral engineering college, but our survival depends upon the expansion of our curriculum into the sciences and may be even further. We as students must do our part in getting the ball rolling.

The week-end of Oct. 27-28 the MSPA held a conference in Great Falls. At this meeting the student presidents from the U. of M. and M.S.U. presented material on student initiated courses.

The program for initiation was simple. The students would find new courses which draw



JIM LEIFER

the interest of many students. They would then approach teachers an interest and background in the subject course. The course would then be offered as a non-credit course. After its sound establishment the students and administration would approach the Board of Regents for accreditation of the subject course. This list of potential courses at U. of M. numbers well over 100 courses.

This type of program requires student initiative and student participation. Do we lack the desire to help our school grow? Do the larger schools have more initiative than Montana Tech students? If we do not as students try to improve our school, Montana Tech may someday be closed with a sign placed on Marcus Daly. Closed! Lack of Initiative and Participation!

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## BOND'S EYE VIEW

Considering some of the plays I've watched in our football games this year, I have this comment on some of the tackling done by both teams. In bowling you use one ball and ten pins — in football it looks like you use ten balls and one pin ? ? ! !

The first issue of the Amplifier looked pretty good, didn't it?

GeorgeAnn Thurston, a last year's graduate in Engineering Science, says HI to all her friends. She was here for Homecoming. It was good to see you again, Jan!

Of the 60 students in the computer class, it is a unanimous vote that the computer is the dumbest thing known to man — it can't even recognize a mispelled word, unless it's programmed that way. But boy, can it add!

Thought I might learn something in mechanics this year, but so far Mr. Herndon hasn't even mentioned engines yet.

A note on the Geology field camp. Dr. Dresser made a valiant effort to correct our misuse of the "King's English." By the end of the field camp, we were all very self-conscious of the spoken work. Dr. Dresser commented "It wouldn't be so sad, but you write like you speak!" So, since school started, every member of the field class visibly flinches every time we hear sentences like: "Where are we AT?" instead of "Where are we?" "Where is that book AT, who are you speaking OF?" instead of "About whom are you speaking?" Listen to yourselves speak, and just as bad, listen to your instructor—some of them do it, too.

On Non-conformists:

All those people we think of as non-conformists seem to have lost sight of their goals. The non-conformists are multiplying their numbers so rapidly that we squares are now becoming the country's true non-conformists. How about that?

The non-conformists, the "hippies," "beats," and the like, are content only to protest the inequities of life, rather than to work toward eliminating the problems. It is so easy to sit back, quit shaving, relax, and cry to the world to serve them. There is no day like that! You have to earn your keep.

The non-conformists I like to see are those who are better known as eccentrics. People like Washington, Lincoln, Edison, Bell, Einstein, Bach, Beethoven,—people who also believe that the world could be better. A lot of work? Yes, but it was worth it to the world—every bit of the blood, sweat, and tears that went into each thought, idea, invention, and discovery.

So, if you don't like the inequities that may make up "Status Quo," become noted for changing it, not just protesting it.

Ernest Bond

Students who wish to have their pictures appear in the yearbook, the MAGMA, should give them to Mr. Young (Office Pet. 102), Diane Bettison, or Elaine Dysinger.

## Cross Cut

by L. C. Hoffman

Once upon a time, there was a tiny kingdom in a far land that was shaped like a doughnut. In the middle of the doughnut was a large mountain that was the source of many kinds of precious stones. These stones could not be mined, for even the most gentle picking would break them, so the only way to separate them from the rock was to let them slowly weather out. Each spring a newly released crop of gems would gradually work their way down the mountain until by fall they were at the borders of the kingdom I have spoken of.

Now this particular country was divided into several princedoms, each of which had an equal border along the base of the mountain. Each was ruled by a prince and several lesser nobles who aided him. These divisions were almost totally independant and a great deal of rivalry existed between them, for they were very prideful and the princes and earls of each section just know that theirs was the very best in all the land. They never actually fought, but if a rotten egg were thrown by a citizen of Mindress it would almost certainly land in one of the other princedoms, like Geofizz.

Each fall, the lords would sit in their manors and wait for the gems to wash and roll across their borders. Then they would take the rough stones and cut and polish them until they were the finest in the world. The stones that were of inferior quality were thrown over the outside border where poorer jewellers might find them.

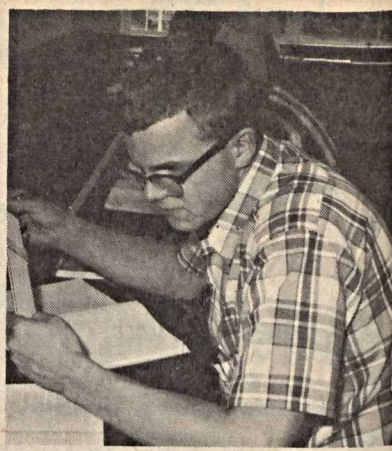
Some years the lords of this princedom or that princedom would not get any gems at all, while another might get a great many. There were even some years none of the sections got any stones. This was the main source of jealousy between the princes and earls. However, the situation was considered an act of the gods and unchangeable.

This went on for many years, and the country as a whole was forced to at least rough cut many stones of inferior quality in order to live. The slopes of the mountain changed and many of the finest stones fell into a swift river that swept them right through the kingdom to the far lands of Mizzool and Bossemania and even farther. Many of these fine gems simply sank into the sediment and were never seen again, for no prince or earl would ever stoop to sifting through the muck.

Then one year a new earl took office in the princedom of Petrolia. Earl Herbert saw all the waste that occurred each year and, being a heretic who didn't believe the gods were responsible, decided to get his own gems.

One fall, while the other lords sat complacently waiting the arrival of the gems, Herbert stole into the mountain and gathered all the gems he could carry and more. He even picked up the stones that were on the very border of another princedom.

When the other princedoms found what Herbert had done, they were very angry. Herbert was ex-communicated and there



Larry Hoffman is the latest personality to join our ever increasing Amplifier staff. Larry is the author of the new column, Cross Cut, a satire about various issues on the campus. He is a junior in Mining engineering, or was up until our last issue when his satire on Plane Surveying was published. His previous literary attempts have included a report on his archeological excavation of the dorm and his philosophical study on anonymity both of which were published in the Amplifier last year. Larry hopes you will find his column interesting, and if you do to please give money instead of a pat on the back.

were many lords that would not even talk to him. He had done the unforgiveable.

But why should Herbert care? He and the other lords of Petrolia were wealthy beyond belief for those times. Herbert was hailed as a great savior.

The other princedoms were furious. They ranted and raved. Some princes and earls even told Herbert's mother on him. She didn't care though, because Herb paid her off. And as angry as all the other princedoms were, it never once occurred to them to go out on the mountain and find their own jewels. Oh, a minor prince here and there mentioned it but were quickly subdued by their lords. Temper tantrums were the rule of the day.

Even with Petrolia flourishing, the country as a whole declined to ruin. No more gems came from the finishing wheels of the artisans. They were too busy revelling in their own glory. The wiser lords left for other countries, for they could no longer put up with the bickering and lack of constructive unified effort.

Suddenly, one day the gods of Regentum descended from their homes on the slopes of Mount Helena and destroyed the wonderful jewelled mountain with their anger, leaving only a pile of worthless stone. All the haggling lords found themselves as low slaves to powerful countries, mass producing a great many cheap gems with a great many flaws. And where the little doughnut shaped kingdom had been, the gods erected a gravel plant that crushed the mountain of stone that had once been a glittering mountain of gems.

### The Old Timer



"If you haven't a few bruises you just haven't been playing the game."



## Scaramouch's Corner

A Satire by Neal A. Mancuso

Let me preface my little contribution to the Amplifier by mentioning a few facts concerning this satire.

To begin with I authored this piece over a year ago when I found myself gazing into the all encompassing, ever protective navel of "Big Daddy Johnson."

Out of plain and simple panic and the need for fresh air, I put into satire what I felt was happening to the individual in this country. The satire itself is written on three distinct levels—one obvious, one a little less obvious, and one quite idealistic enough so as to be quite inobvious. Although as I mentioned before, this little satire is over a year old, I still find the ideas contained within it timely and offer it to you, my fellow students, for your enjoyment or displeasure. (To be read aloud in monotone.)

Said Tom to his wife and son: "Family, we shall leave the crowded conditions and polluted air of the city and head West to the great frontier—the land of freedom. We shall buy a parcel of land, build our home and live off the land—for I am tired of placing empty cans in one bag and paper garbage in another; I am tired of waiting for a washer and fighting for a dryer—we must move to a land free of laundramats and parking meters."

Said Tom's wife in reply: "You are the head of the family and we shall follow you wherever you go."

Tom went West and purchased his parcel of land and built his house and lived off the land. All was peaceful—for a while.

Soon a man from the Master Planning Board visited Tom and said: "Sir, be it known to you that this land is zoned under the new zoning act for corporation only, and sir, you are not a corporation and hence must vacate the premises within 30 days."

Said Tom to the Master Plan Man: "Sir, I know the law and the law states that an individual may incorporate—I shall incorporate." The Master Plan Man replied: "So-Be-It."

Tom became a corporation and as required by law he sold 3 shares of stock in his corporation—one to his wife, one to his son and one to his mother-in-law, and all was peaceful—for a while.

Soon the Master Plan Man appeared again and said to Tom: Mr. Chairman of the Board, it is true that you are indeed a legal corporation and hence come under our requirements—but, by interpretation of the word "corporation" in our plan, we find this land limited only to those corporations that produce a product or deal in a service—and it is plain to see that you do neither of these. Hence you must vacate the premises with 30 days.

Said Tom to the Master Plan

Man: "Sir, I know the law, and as a corporation I do produce a product—my corporation produces children—this is our first product, my son."

"Fine" said the Master Plan Man, "You do indeed produce a product—and one of high quality—but by the dictates of the Master Plan, I must set your production on a yearly basis."

"Fine" said Tom, "and I now realize that I am entitled to a depreciation allowance on my Factors of Production and a tax discount on old equipment from Uncle Sam."

"You are truly right" said the Master Plan Man, taking his leave. And all was peaceful—for one year.

Again the Master Plan appeared and said to Tom: "Mr. Chairman of the Board, you have not maintained the required level of production of one product a year—hence, if you do not produce a product within 30 days you must vacate the premises."

Said Tom to the Master Plan Man: "Sir, it is impossible for me to meet this requirement, for my machinery is old and does not function so well any more—pray tell me what I can do!"

The Master Plan Man said to Tom: "Mr. Chairman, there is only one thing you can do, and that is to file a petition of bankruptcy within 30 days."

"So-Be-It" said Tom.

Tom filed a petition of corporate bankruptcy, and all his creditors came to the division of his capital goods.

Uncle Sam received two of Tom's legs, one arm, and his factors of production for back taxes; Tom's wife received his other arm; Tom's mother-in-law and son divided equally his torso from hips to neck; The Master Plan Man received the house and land.

Said Tom to the Master Plan Man from his not-so-lofty perch on the kitchen table: "Sir, pray tell me what is to be done now?" Said the Man, "Mr. Chairman of the Board, all your obligations have been satisfied and it is written in the law that after all corporate obligations have been satisfied, the corporation head shall be free and unencumbered."

Said Tom to the Master Plan Man: "Sir, it is truly a great society that can relieve a man of all his encumbrances—for under this great society I am finally free."

And then Tom closed his eyes, shed one tear of joy, and died.

### PENNEY'S

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## Student officers meet in Gt. Falls

A meeting of all executive and legislative bodies of Montana colleges and universities was held in Great Falls Oct. 28-29.

Four main committees were established and each discussed their own particular functions. These four were the Presidents Committee, Student Life, Curriculum, and Finance.

Many resolutions were proposed and discussed; however some failed because they lacked a practical solution to enforce them.

All aspects of college life, such as student government money appropriations, foreign students and their role on campus and more liberal dorm laws, were discussed.

Suggested by the Curriculum Committee was student-initiated courses. If a number of students are interested in a course which is not offered by their college, they may obtain qualified instructors to establish a non-credit course in the school in this particular subject. Once this is done, the students and instructors may petition the college to offer this subject as a regular credit course.

The Finance Committee discussed the wages that members of student council receive. All colleges in Montana, with the exception of Montana Tech, give partial or full tuition scholarships to their student council officers. Where and how money is budgeted for various clubs, athletics, the school paper, yearbook, etc., was also mentioned and proposals made.

Bringing big name entertainment to all state campuses and more liberal dorm laws were the main topics touched upon by the student Life Committee.

It was decided by a majority of those attending that school officials had no authority to play a "Mother" role to any of its students if they become implicated in some civil disturbance or with the police off campus.

A banquet was held Saturday night and the Mayor of Great Falls delivered a speech to conference members.

All President's Committees in the MSPA will hold another meeting in Billings in January and one in the spring which will be in Bozeman.

Representing Montana Tech at this conference were Jim Leifer (President's Committee), Terry Angove (Student Life), and Kay Lear (Curriculum Committee).

Jim Leifer, student body president, had this to say of the two day meeting: "Because Montana Tech is a small college, we thought we had nothing in common with other larger state universities and colleges. However, all share the same basic problems, regardless of size. In private schools, especially, the cry of the majority of students is: 'More Freedom from campus rules and regulations.'"

## Parade Highlights



Sigma Rho's blunderbuss



George Pamenter's sports car



Sophomore Class — L.S.D.

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Mrs. Loretta Peck, Librarian, and students Noreen Alfredson (seated at desk) and Charlene Dugdale are shown in the library's new mezzanine.

## Library remodeling mostly finished

The Montana Tech library after nine months of remodeling is now in full use. The work began last January and the equipment was moved into the library in September; meanwhile the library operated from the Museum Hall.

The library added a U-shaped mezzanine, which covers about three-fourths of the floor space. The mezzanine divided the library, which has a twenty-foot ceiling, in half. This provided much more private studying room and book storage area. Twenty-four carrels have been installed, and these are equipped with shelves and lights and are situated twelve at each side. Adjacent to the carrels are book cases with a holding capacity of 15,000 books. As of yet, these cases are not filled but are expected to be soon with the purchase made from a federal grant issued to the library.

The stair railings are arranged for bulletin board pin-ups and other informative materials that the librarians wish to exhibit. At the top of the stairway, there is a reading oasis for students who wish to study in the lounge chairs provided. The architect, Charles A. Kestle, combined the old and new, using polarized lighting and terrazzo trim.

The two enclosures at the rear of the mezzanine are to be audio-visual and microprint centers. These centers are not finished, as the library is still waiting for the needed equipment to arrive.

Since the rooms will not be sound-proof, earphones will be made available. Individual readers and projectors for the microfilm should be in continuous use for both the negative and positive films of theses.

The head librarian, Mrs. Peck, said, "The library is more attractive now and in general the project worked well. Mr. Kestle did a fine job."

## Climbers have club

One of the more physically active clubs on campus is the Climbing Club.

Activities include various excursions usually on weekends to various surrounding areas and a few trips to distant peaks in Glacier Park and other such areas.

Officers of the club are Bob Hutt, president; Gary Mannix, vice-president and safety officer, Elaine Dysinger, secretary-treasurer. Professor Herndon is the club's advisor.

## Circle K Club choses officers

Circle K Club officers for the coming year are president Mike Chapman, vice-president, Joe Wallace Jr., secretary Jerry Harrington, and treasurer, Fred Hoffman.

At present the club is small and new members would be welcome.

Circle K is an international organization for college men dedicated to developing future leaders and citizens "whose philosophy is founded on freedom, initiative, the American and Canadian heritage, and unselfish devotion to others."

A blood drive for the late C. R. Robins was conducted by the club recently.

Circle K also won fourth prize in the Homecoming parade.

New activities will be reported in later editions of the paper.

A British psychologist has stated that marriage will soon be a thing of the past. Maybe the proper substitute is war.

Indiana University and the University of Montana have recently had bomb and sniper threats. No student apathy on those campuses!

## Women organize recreation group

Newest of the on campus organizations is the Women's Recreation Association, better known to the students as WRA.

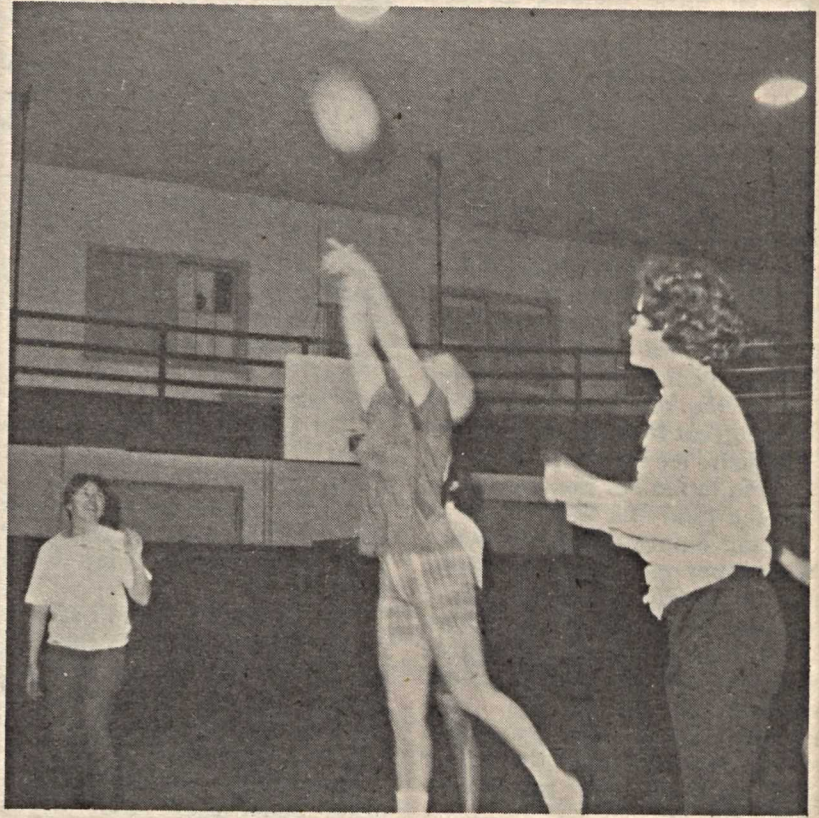
Membership allows the women students and the faculty and student wives the use of the gym and its facilities on any Tuesday night of each week from 6:30 to 9:00. Organized activities are scheduled so that there will be at least one hour each night when the gym will be open for any other sports activities.

Officers of the club are Dar-

lene Wheeler, president; Diane Hoar, Secretary; and Barbara Cockhill, treasurer. Mrs. George Sarsfield, the physical education instructor, is the advisor.

There are two or more managers in charge of each of the respective sports sections. It is their job to make the rules that will be used and to set up and officiate at all of the games and tournaments.

Information concerning the date and time of any of the club's activities is posted on the bulletin board in the gym.



W.R.A. volleyball competition—fast and furious.




Why do more young men insist on Snug-Duds?

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## Mineral Club elects

The mineral Club recently elected officers. They include Mike Dewey, president; Paul Heissfeld, vice-president; and Jeff Russell, secretary-treasurer.

At the meeting, members ratified a new constitution, written by Paul Heissfeld.

William Rogers, a freshman majoring in mining, gave a talk on minerals found at the Franklin, New Jersey.

If enough interest is found, some of the club's members will sponsor a lapidary class during the winter months, in which members may learn how to cut and polish some of the material they have collected.

Mineral Club has increased in the past year from 18 to 28 members. Prospective members are welcome to join.

Recently the club purchased a slab saw as an addition to their equipment.

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## Tech coed chosen Miss Butte World



**PATTY JAPP**

Patty Jaap, an eighteen year-old general student from Montana Tech, was crowned Miss Butte World, October 23rd in the Butte Civic Center. A panel of two men and two women judged the nine entries on poise, personality and all-around feminine beauty.

Thursday, October 25th, Miss Jaap left for Billings to represent Butte in the Miss Montana World Pageant. A near-capacity crowd filled the Shrine Auditorium to see the twenty-three contestants and to hear the Glen Miller Orchestra with Macdonald Carey (well-known stage and screen actor) as master of ceremonies.

Paula Tetslauf, a Billings girl, was chosen Miss Montana World.

Patty is an active member of the freshman class, belongs to W. R. A. and A. W. S. She plans to attend the University of Montana next year and major in secondary education.

Commenting on her experiences, she said: "It was a great honor to be chosen to represent Tech, and I had a wonderful time. But, I do feel that we could have had a little more enthusiasm from the student body and especially the Student Council."

## Students like unusual summer employment

By Bob Chew

Bees or uranium occupied the interest of three Montana Tech students this summer. Jack Humphrey worked as a beekeeper and Pete Knudsen and Andy Johnson were employed as geologic aids for the Atomic Energy Commission.

Humphrey, a sophomore in petroleum engineering, was a beekeeper for the Cloverdale Apiaries located in Manhattan, Montana. (An apiary is a place where they keep bees. I looked it up.) His duties varied. At the beginning of the summer, he helped to find all the queens and clip their wings so they wouldn't fly off and form new colonies. Later he worked on the extraction of the honey, done with steam fitted knives which cut the wax off the comb. The honey is then separated out of the wax by centrifuging.

Uniforms of the day for apiarists are blue and white striped bib overalls, a white shirt, leather boots and gloves and a straw skimmer with a veil for protection of the head and face. Elastic bands are worn at the wrists and elbows to keep the bees from under the clothing. Clamps are worn around the tops of the boots for the same purpose. Also, they carry smoke guns which, by means of a hand operated bellows, blow smoke on the bees to tranquilize them. (I wonder if they have tried pot.)

The bees never get very tranquil, however, and Jack says that he usually gets stung about two or three times a day. Once he was stung sixty times in twenty minutes. When the bees are not making honey, they don't appreciate having what they have made taken away. His record number of stings for one day — two hundred.

Jack likes beekeeping "except

when the bees are onery." He doesn't think he'll do it again next year, though.

Pete Knudsen and Andy Johnson spent the summer perhaps less painfully, but no less interestingly. They worked for the United States Atomic Energy Commission out of Grand Junction, Colorado. Placed in the Geology division, their duties consisted of mapping known uranium ore deposits, keeping track of excavations of the radioactive stuff, and investigating new areas for possible exploitation.

They traveled quite a bit in Wyoming, Utah, and Colorado. They also did some computer work, which was probably more comfortable than, for instance, the week they were camped out by Baggs, Wyoming.

The boys got the job through an interview, but, before they got their security clearances, they were investigated by the F. B. I., who questioned people around the campus about them. (We are happy to report that they are not spies.) The AEC keeps track of all uranium production and reserves in the U. S., and they don't take any chances. They have operations all over the country, a fact which the production company of a movie called "Blue" would have been wise to keep in mind. It seems that the AEC ungraciously put a drilling rig in the middle of an area near Moab, Utah, where they had planned to shoot a scene. If you attend the movie and see a cactus that looks like a drilling rig or a drilling rig that looks like a cactus, you'll know that the AEC is on the job.

Pete and Andy, both seniors in geological engineering, said that, on the whole, spiders notwithstanding, they enjoyed their summer jobs.

## Professor Herndon works for NASA

Professor Charles Herndon spent the summer working at the National Aeronautics and Space Administration's Marshall Space Flight Center in Huntsville, Alabama. He was attached to the coordinating engineering division, which clears all contracts, contract changes, and design changes in ground support equipment for the Saturn V moon rocket.

The Saturn V is a liquid rocket which will take United States astronauts to the moon. It is a liquid fuel rocket, 365 feet tall and weighing 350 tons empty, but, when filled with liquid oxygen, jet fuel, and liquid hydrogen, it weighs 3,150 tons.

Mr. Herndon's work concerned ground support equipment, that is the permanent installations for the launching of the big haul, such as towers, pads and fueling equipment.

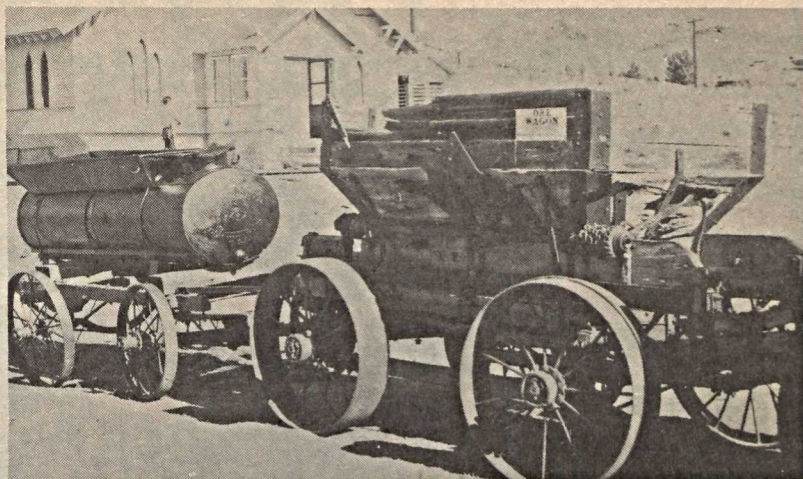
In particular, he worked on a project to determine the reliability of a hydraulic unit used to start the rocket engines and to provide heat in order to keep the liquid oxygen valves from freezing shut. Reliability engineering, a relatively new and rapidly expanding field, has grown primarily from space flight projects. A perhaps oversimplified description of its methods is that engineers con-



**Prof. CHARLES HERNDON**

duct tests on each component part in a unit in order to determine the probability that the unit as a whole will function when it is needed. Their answers usually take the form of so many failures in a million trials. There are so many component parts involved in the launching of a rocket that, even if each one had a probability of functioning of 99.99%, the probability that the rocket would be launched successfully, once the equipment begins functioning, is only around 50%.

In addition to their actual research work, the engineers attended twice-weekly seminars on missile operations. Their schedule also included trips to the Huston Manned Space Flight Center and Cape Kennedy.



## Mining Museum offers varied displays

By Renee Sund

The World Museum of Mining, located about one-half mile west of Montana Tech, was officially opened June 18th of 1965. At this time only a few exhibits were on display, but since then the displays have greatly increased and become a main tourist attraction. Since 1965 there have been approximately 30,000 visitors and from July 15 of last summer to October 12 the tourist record was topped at 7,201 visitors. Most of the mining exhibits have been generously donated by fellow Montanans.

The largest and oldest attraction of the Museum is the Orphan Girl Mine with a shaft 3,200 feet deep. "Because of the water which has seeped into the shaft, visitors are not allowed down in the mine," says Roy Meyers, the Museum's watchman for the past three years. The original hoist house, however, has been turned into a gift house and exhibit hall. Tourists can purchase mine paintings and souvenirs symbolizing Montana's greatest industry—mining.

A recent attraction to the originally from Meaderville. This church arrived at its present location, August 20, 1966, aboard flatbed trucks which transported the large building directly through the open pit.

Another original display is the old miner's cabin, fully furnished with a coal and wood cooking stove, kerosene lamps, antique dishes and a shiny brass bed. The entire cabin is wall-papered completely with old newspapers. The blacksmith's shop, a typical false-fronted building, is also fully equipped with creaky old machinery which vividly pictures the old mining days.

Other interesting mining exhibits shown are wood ore wagons dating back to 1918, hand-made wooden pulleys from Elkhorn Mine at Boulder and an old sluice box from German Gulch. Also logging wagons, gas and steam driven hoists, a stamp mill and a 100 year old Chilean Mill from Moosetown.

add variety to the over-all exhibit. When one enters the Museum, the most evident display is a Davenport Locomotive modeled about 1910 which was used at the Great Falls Reduction Department for many years. This, along with the 1960 ore truck, was donated by the local Anaconda Company. This newer ore truck with a capacity of 70 tons, a 670 horse power diesel or 2,000 horse power on trolley, and a speed of 15 M.P.H. on a 15% grade can be roughly compared to another much older exhibit, an ore wagon dating back to 1860 with a capacity of 1 ton, horse power of 2, and the speed being a mere 4 M.P.H. on the level. There is no better site for such a realistic and interesting collection of mining antiques than Montana Tech and there is no better location for Montana School of Mineral Science and Technology than the traditional "richest hill on earth."

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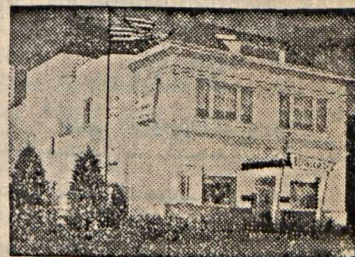
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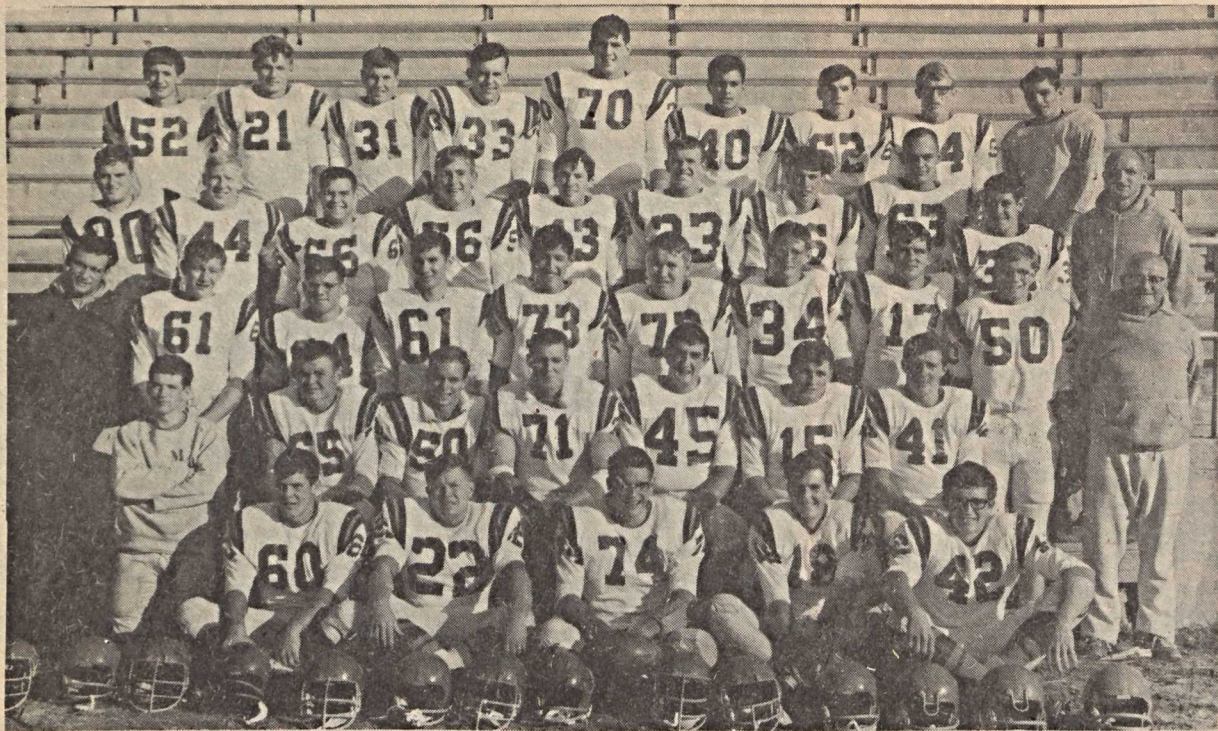
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## The Coach Speaks

by Tom Lester

This year the team has displayed much courage, perseverance and desire. After a good start, the first half of our first game, we lost much of our offensive punch due to injuries. The team is a team, however, and was not hurt. The boys went to work rebuilding and rededicating to find the key to success. The trial-and-error method seemed to be the only possible way. This, however, is a long, tiresome job which could cause a lack of desire and togetherness.

But the team suffered through with no devastating effects. The result — a stronger, more determined group of boys who are willing to work for the team and achieve team glory.

Our last Rocky contest proved that the team has achieved the goal of making up for the early season injuries. The deficiency which the team possesses now is made up for by individual second effort. For two weeks, we have worked in an effort to get ready for Carroll. The preparation, effort, and determination will be shown against the fighting Saints. The team is ready for a maximum effort which the game will take.

"Credibility Gap" apparently does not appear on official maps of the campus.

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## Tech Loses Two Games

Northern Montana College spoiled Montana Tech's homecoming hopes by winning 19-0 on October 21.

Bob Hodge, leading the Northern attack, scored three times on runs of 36, 14, and 86 yards, respectively. Using a quick opener over tackle the Lights repeatedly hurt the Tech defense.

Walt LeProuse kept Northern in poor field position most of the afternoon. One of his punts was a powerful 86 yard boot which was downed on the Northern 5 yard line.

Tech's offense was improved over the previous few games, and the defense was extremely tough on the opposing offense.

Tech	0	0	0	0
Northern	0	13	6	0

Rocky Mountain, converting a blocked punt into a touchdown, edged the Montana Tech Ore-diggers in a 7-0 battle on October 28.

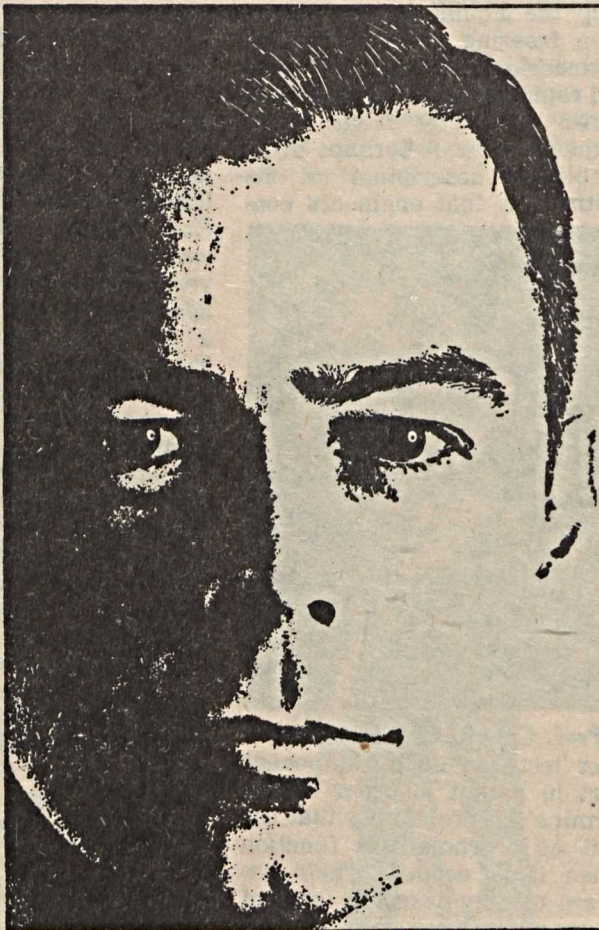
Mike Easton blocked a Tech kick late in the second quarter and then marched 41 yards to provide the winning margin.

Tech threatened many times but fumbles and penalties thwarted the threats. Two of the closer threats were to the 17 and to the 9 yard line.

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